

Far-Term Development Goals

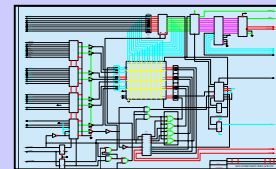
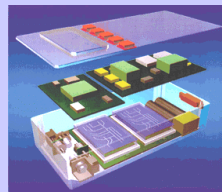
CURRENT

2005

2010

Development Goals

- Understand physiological responses and underlying mechanisms
- Reduce the unit weight, cube, and cost
- Introduce new technologies to augment capabilities and practicality
- Real-time and networked units for toxicity mapping
- Eventually replace whole organism with automated sensor arrays



ENABLING TECHNOLOGIES

- MEMS
- Microfluidics
- Signal Processing
- Robotics
- Cybernetics
- Genetic Engineering
- Materials Chemistry
- QSAR
- Tissue Engineering